

ABSTRACT

A thin and large high toughness die-cast product is provided that is formed from an Al-Mg casting alloy having the composition $3.5 \text{ wt } \% \leq \text{Mg} \leq 4.5 \text{ wt } \%$, $0.8 \text{ wt } \% \leq \text{Mn} \leq 1.5 \text{ wt } \%$, $\text{Si} < 0.5 \text{ wt } \%$, $\text{Fe} < 0.5 \text{ wt } \%$, a sum (Ti + Zr) of amounts of Ti and Zr added of equal to or greater than 0.3 wt %, and a ratio (Ti/Zr) of the amounts of Ti and Zr added of at least 0.3 but not more than 2, with the balance being Al.